

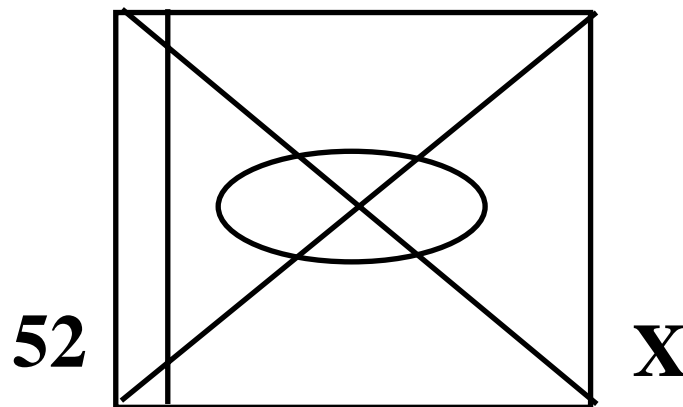
GRAPHICS AND OVERLAYS

STUDENT HANDOUT 1

THIS IS SH-1, IT IS A STUDENT WORKBOOK CONTAINING 26 PAGES OF THE PRACTICAL EXERCISE THAT YOU WILL NEED TO WORK IN ORDER TO DEMONSTRATE YOUR UNDERSTANDING OF GRAPHICS AND OVERLAYS. THESE SYMBOLS ARE EXTRACTED FROM FM 101-5-1, DATED SEPT 97.

GRAPHICS AND OVERLAYS WORKBOOK

XX



OPERATIONAL SYMBOLS AND OVERLAY GRAPHICS

INSTRUCTIONS

This workbook is based on FM 101-5-1, Operational Terms and Graphics, dated September 1997. It will provide you with a working knowledge to identify and construct operational symbols and graphics.

You must take your time and study each as you complete this workbook. Otherwise, you'll learn very little from carelessly answering the questions or drawing the symbols. As you progress, your speed, accuracy, and neatness will improve.

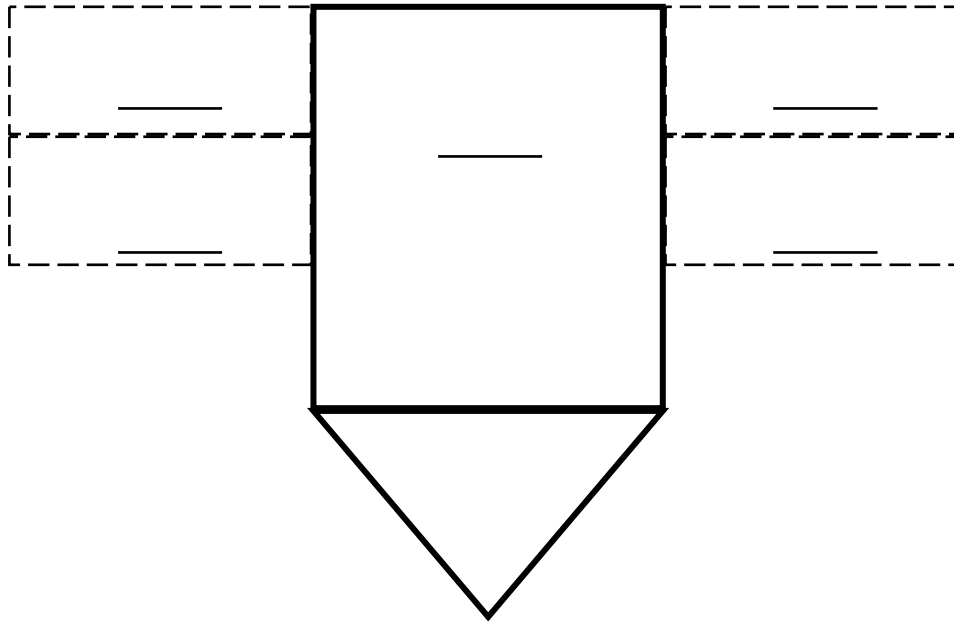
Before you begin the workbook, open FM 101-5-1 to the Contents, page i. There are five chapters and five appendixes. If you have a question concerning a term or abbreviation, look in either of the first two chapters.

Note the shadowed boxes located at the beginning of some chapters. These provide you with a link to definitions and graphic examples located throughout the Field Manual.

You should complete this workbook before the beginning of the Graphics and Overlays block of instruction.

Your goal upon completion of this workbook should be a better understanding of FM 101-5-1 and how it can be used to provide you with the information you need to replicate any graphic symbol on an overlay. You will need this knowledge to successfully complete the Graphics and Overlays Examination.

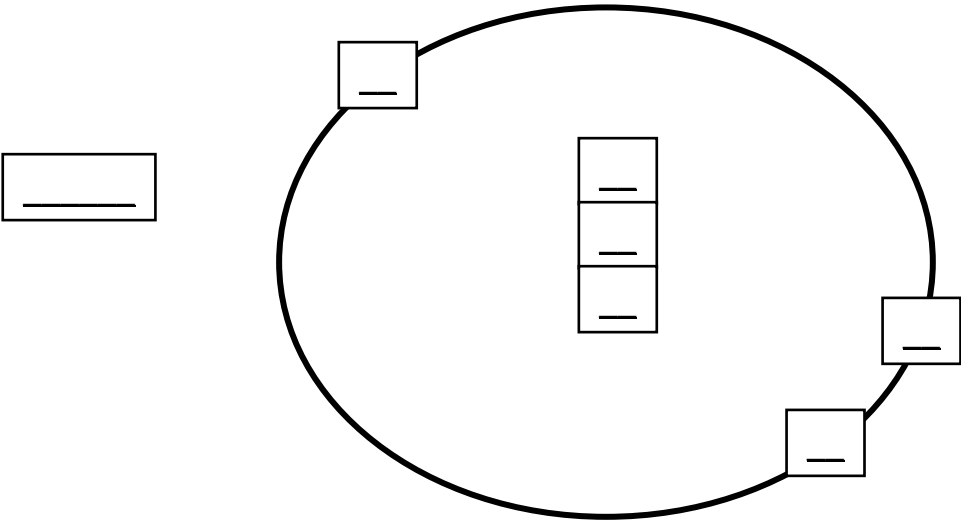
Identify the fields for a point.



What is the reference page for the above information? _____

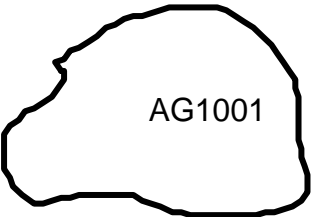
List the reference page and identify the fields for an Area.

Ref page:_____

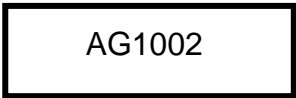


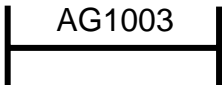
Identify the required alphanumeric characters for field Whiskey, (DTG).

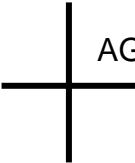
Identify the following “Maneuver and Fire” and “Fire Support” symbology and reference page for each symbol.







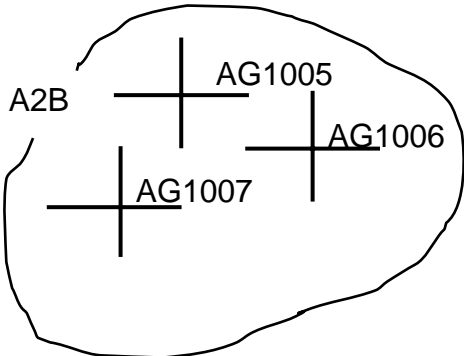




AG1004

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Another step in Graphics is the posting of lateral boundaries between units. A boundary is a control measure normally drawn along identifiable terrain features and used to outline areas of tactical responsibility for subordinate units.

Lateral boundaries - are control measures that define the left and right limits of a unit's zone of action or sector. Together with rear and forward boundaries and a coordinating altitude, lateral boundaries define the area of operations for a commander. Label lateral boundaries to reflect available information to achieve clarity. Authorized abbreviations are provided in Chapter 2 and 4. Chapter 3 defines required fields for lateral boundaries. Identify the units at these boundaries correctly, check your answer in the answer workbook.

Describe the Lateral Boundary between 25th IN Div and 122d IN BDE (SEP) (M)

Describe the Lateral Boundary between company Team A and Company B, TF 1-5 AR

Describe the Lateral Boundary between Company D and Company B

Describe the lateral Boundary between 10th IN Div (M) and 25th IN Div (L)

Describe the Lateral Boundary between TF 1-5 AR and 3-15 IN (M)

Describe the REAR Boundary between TF 1-5 AR and 2 BDE AR

Label each boundary in accordance with the provided information. For this exercise, place the first unit to the north and the second unit to the south, consider the top of the page as north.

Rear Boundary between 1st BDE IN (M) and 3d IN Div (M)

Lateral Boundary between X Corps (US) and 1st Armor Div (UK)

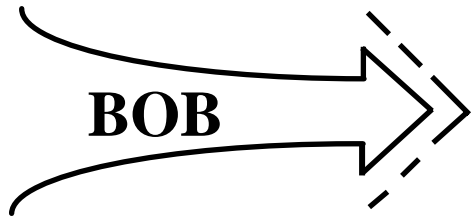
Lateral Boundary between 52d IN Div (M) and 54th IN Div

Rear Boundary between B Company and TF 1-79 IN (M)

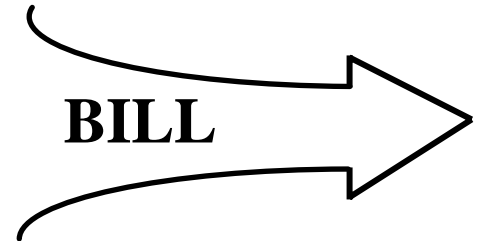
Lateral Boundary between Company Team F and Company Team B

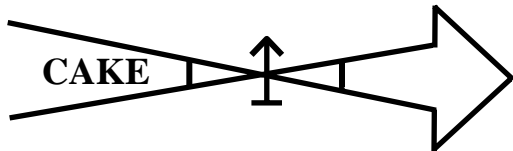
Rear Boundary between 3d BDE Mech. and TF 1-4 Armor

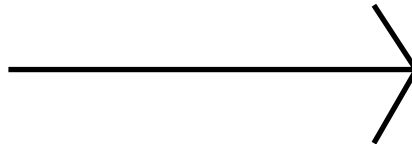
Identify the following symbols and the reference page for each.













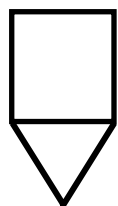
Identify the following symbols and the reference page for each.

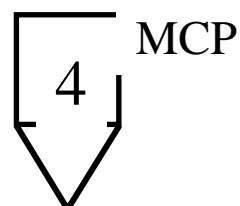


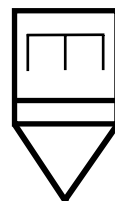




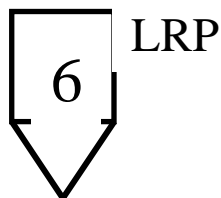


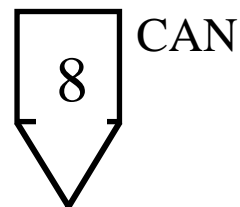


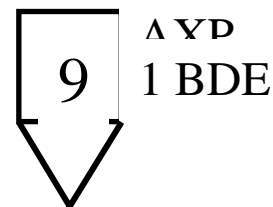


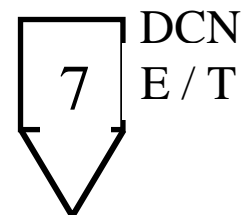




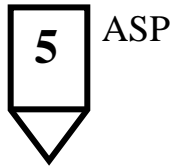


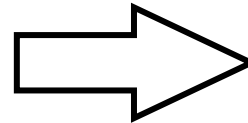


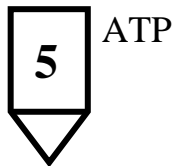




Identify the following CSS symbology and reference page using Chapter 3:













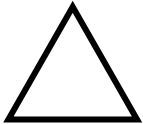




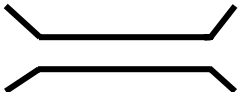


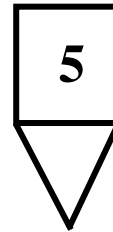
Identify the following Mobility and Survivability Symbology and the reference page as identified in Chapter











ERP





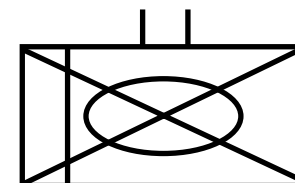


Use the following colors to complete your overlays.

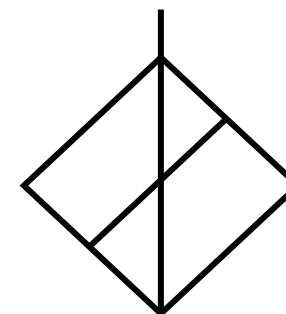
Green: All obstacles, friendly, enemy, neutral, or factional.



Black: All friendly units and graphic control measures.



Red: Enemy symbols and enemy graphic control measures.

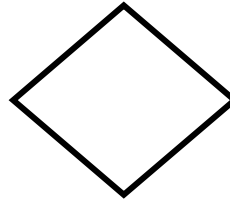


What page refers to the use of these colors? _____

These are the three basic symbols used in graphics.



**FRIENDLY GROUND UNITS
(RECTANGLE)**



ENEMY UNITS (DIAMOND)



NEUTRAL (SQUARE)

What is the reference page _____?

NOTE:

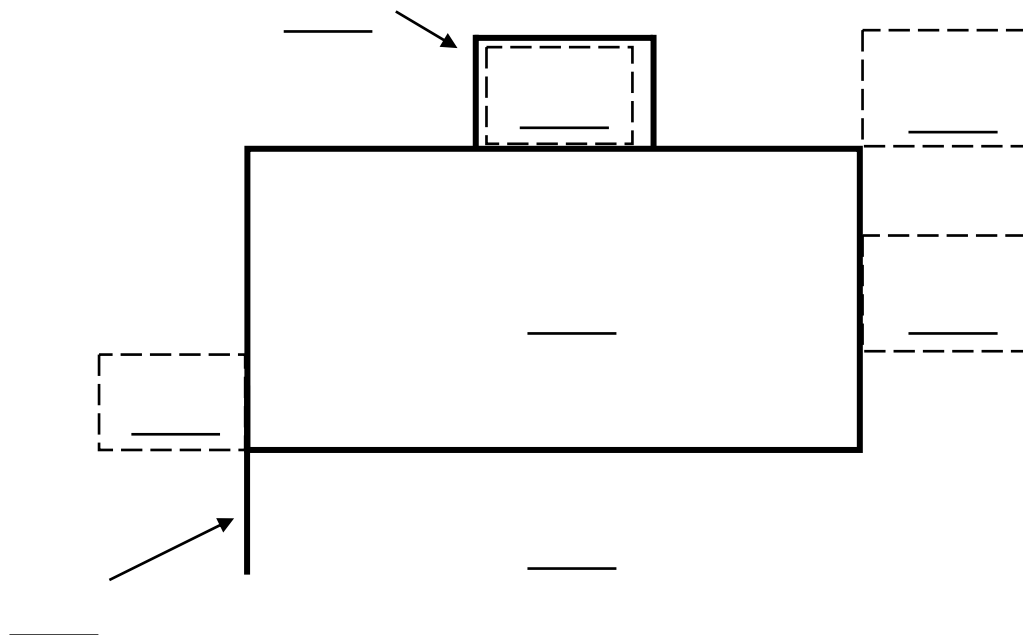
FM 101-5-1 SHOWS SYMBOLOGY FOR SHIPS AND AIRCRAFT; HOWEVER, WE WILL NOT ADDRESS THESE SYMBOLS DURING THIS COURSE.

The required Mandatory fields for any specific symbol are those fields needed to correctly represent any given symbol.

For most unit symbols it will be necessary to fill in fields Alpha, Bravo, Tango, and possibly Delta, Foxtrot, Hotel and Sierra.

Notice that with field Alpha there may be several modifiers required to correctly replicate a unit; e.g., airborne, gun system equipped, or bicycle equipped.

Identify each of the fields indicated for this symbol.

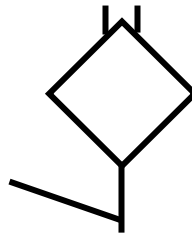
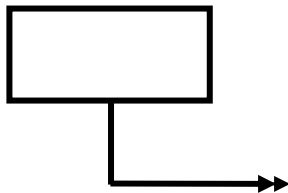
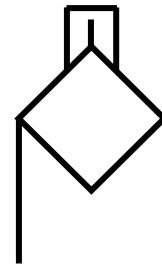
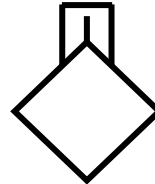
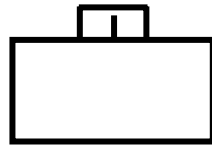
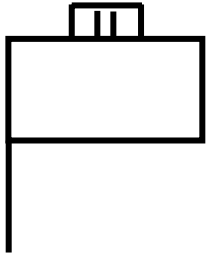


Field _____, placed over the size indicator field denotes a temporary grouping of units. We use this

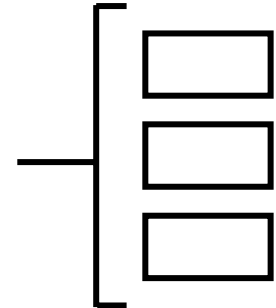
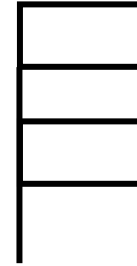
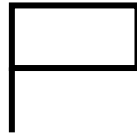
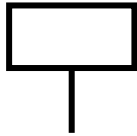
special size indicator to depict a _____ or _____. If you are drawing a Headquarters

element what field must you use? _____. You can find this field on the friendly and enemy types of

symbols. What do these symbols represent?



What do the following symbols represent and what is the reference page in FM 101-5-1? _____



Answers:

We use X's to represent the size of Brigade thru _____ Units.

Annotate below which unit size is depicted:

SYMBOL

X
XX
XXX
XXXX
XXXXX
XXXXXX

UNIT SIZE

We use the following symbols to show the size of units below Company level. These sizes are:



Represents a _____



Represents a _____



Represents a _____



Represents a _____

We use vertical lines to represent the size of units from Company to Regimental/Group level. These sizes are:



Represents a _____



Represents a _____



Represents a _____

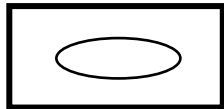
What is the reference page in FM 101-5-1? _____

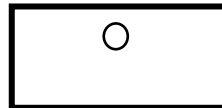
Start on 4-8 (FM 101-5-1) and identify these modifiers to field Alpha.





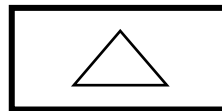






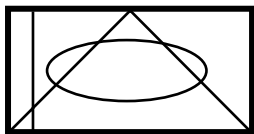


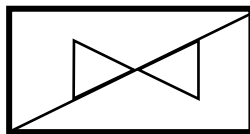


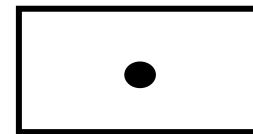


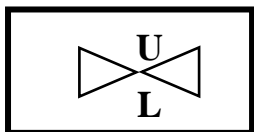


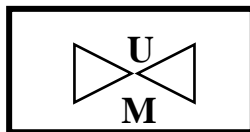
Name these units:

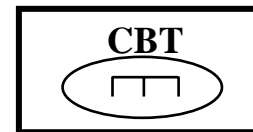


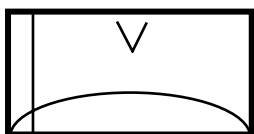


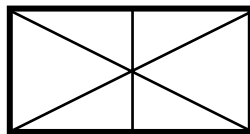


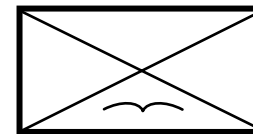




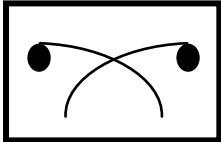




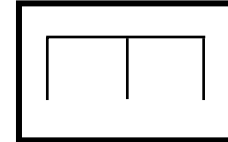




Name these Combat Support Units.

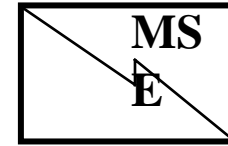


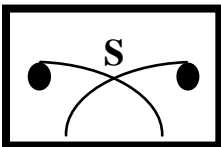


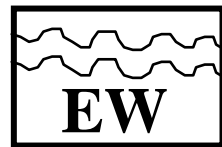


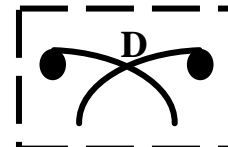




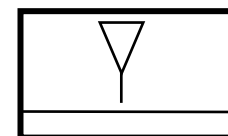
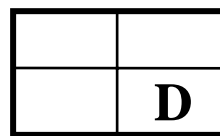
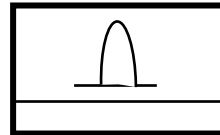
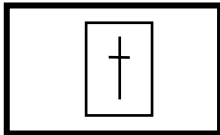
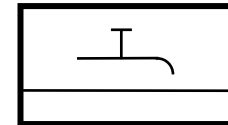




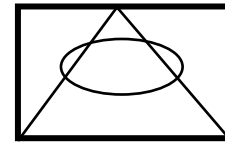
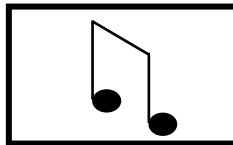
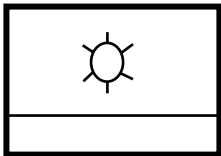
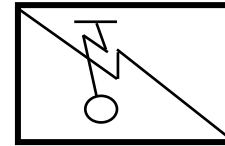
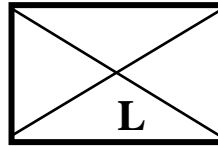
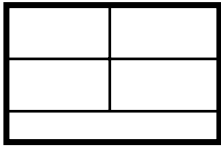
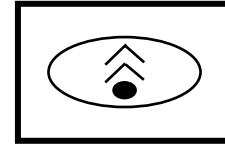
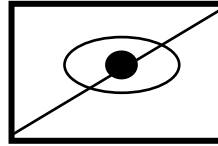
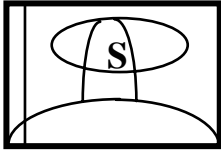




Name these Combat Service Support Units.



Identify these symbols.



Draw the correct field Alpha, Bravo, Delta, and Tango entries for the symbols below:



1st Plt Airborne IN



Company Team A, Air Assault IN



**1st Section Bicycle
Equipped IN**



**Company-sized
Medical Treatment Facility**



1-79 IN (M) (B)



2-66 IN Mountain



Recon Platoon



3rd Squad IN Observation Post



ADA Team Listening Post



A Battery SP Artillery

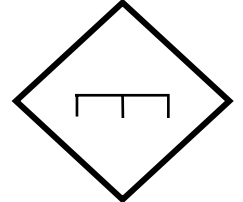
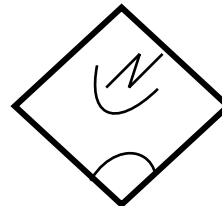
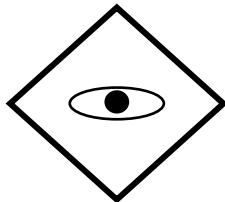
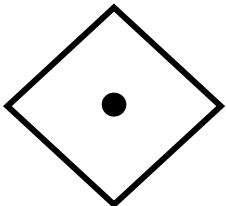
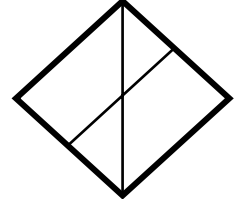
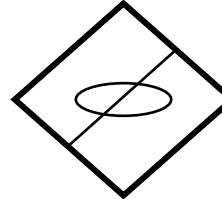
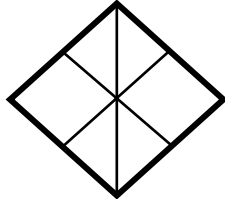
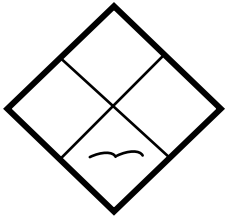
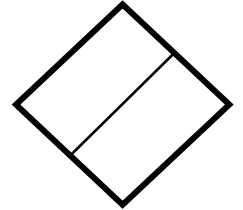
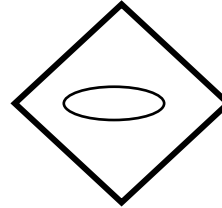
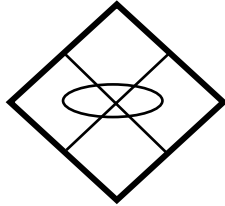
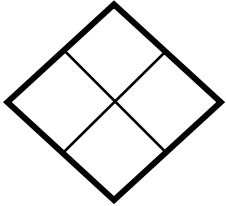


TF 1-4 Armor

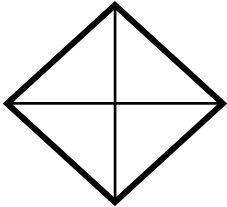


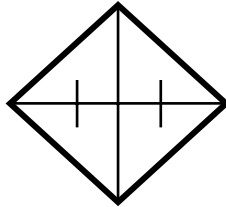
GSR Team

Identify the following symbols from Chapter 4 and Appendix B.

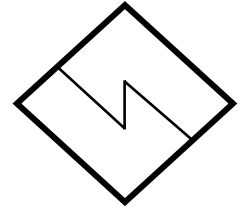


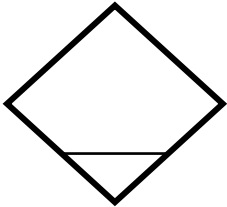
Identify the following symbols from Appendixes B and D :

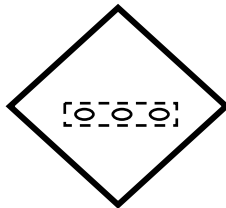


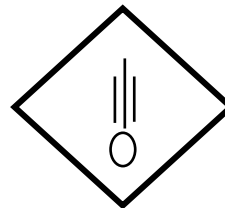


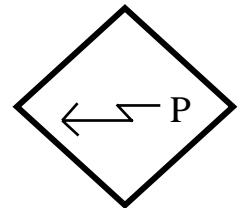


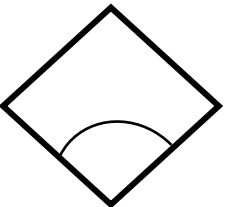


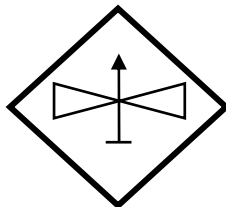


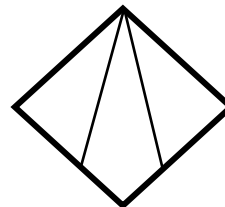


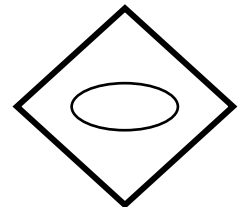








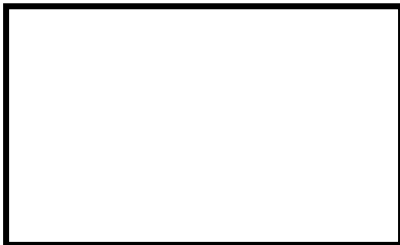




DRAW THE SYMBOL FOR YOUR UNIT AND YOUR NEXT HIGHER HEADQUARTERS.

IF YOU ARE IN A TDA UNIT, THEN USE THE LAST TACTICAL UNIT YOU WERE IN AND ITS NEXT HIGHER HEADQUARTERS.

IF YOU ARE ENROUTE TO A NEW ASSIGNMENT, DRAW THE UNIT YOU JUST LEFT AND ITS NEXT HIGHER HEADQUARTERS.



WB 1-26